

California Environmental Protection Agency
Air Resources Board

California Regulation for the
Mandatory Reporting of Greenhouse Gas Emissions

GHG Abbreviated Reporting
Regulatory Requirements, Registration,
and Use of Cal e-GGRT System

April 18, 2013
Presentation Slides Available Here:
<http://www.arb.ca.gov/cc/reporting/ghg-rep/guidance/guidance-training.htm>

California Air Resources Board 1

Outline

- Abbreviated reporting requirements
- New user registration and account creation in Cal e-GGRT reporting system
- Using Cal e-GGRT for abbreviated greenhouse gas reporting
- Key reporting dates and other resources
- Questions and Answers

California Air Resources Board 4/18/2013 2

Abbreviated Reporter Applicability

- Reportable greenhouse gas emissions must be less than 25,000 metric tons CO₂e (carbon dioxide equivalents) and greater than or equal to 10,000 MT CO₂e
- **AND**
 - Not a Fuel Supplier or Electric Power Entity
 - Not subject to cap-and-trade program (i.e., not an opt-in facility or due to historical emissions)
 - Not subject to U.S. EPA reporting for sectors included in ARB regulation
- See Section 95103(a) of regulation

California Air Resources Board 4/18/2013 3

Reporting Requirements

- Facility identification information
- Emissions data
- Fuel consumption
- Methods and data used for estimates (as applicable)
- Additional data for electricity generation and cogeneration (§95103(a)(6))

California Air Resources Board 4

Abbreviated “Reportable Emissions”

- Must report all specified fossil fuel and biomass combustion emissions of CO₂, CH₄, and N₂O
- For 2013 reporting of 2012 data, only stationary combustion emissions required
- For 2014 reporting of 2013 data and onward must also include:
 - Process emissions for glass production, hydrogen production, iron & steel production, pulp & paper production

California Air Resources Board

5

What Makes Reporting “Abbreviated?”

- Abbreviated reporters may use less stringent emission estimation methods
 - Default emission factors, Tier 1
 - Most will use utility bills for fuel use data
- Not subject to measurement accuracy requirements of §95103(k) or unit aggregation in §95115(h)
- GHG monitoring plan not required
- Not subject to third party verification
- More time to report – Reports due June 3rd for 2013 reporting of 2012 data (vs April 10th)

California Air Resources Board

6

Additional Info

- If future emissions exceed 25,000 metric tons
 - Full reporting and meter accuracy requirements apply for entire year
 - Verification required
- Cessation or Shutdown
 - If emissions are less than 10,000 metric tons CO₂e for three consecutive years
 - May discontinue reporting
 - Must notify ARB
 - See §95101(h)(1) for details
 - If shutdown, must report zero emissions for 1 year and notify ARB

California Air Resources Board

7



How to Report

Reporting is performed using the California Electronic Greenhouse Gas Reporting Tool

Cal e-GGRT

pronounced: Cal-Egret (like the bird)

California Air Resources Board

8

What is Cal e-GGRT?

- Cal e-GGRT is used to report all data required by the GHG mandatory reporting regulation
- The tool contains modules for each sector required to report
- Will calculate emissions based on entered fuel consumption values
- Multiple users can be associated with a single facility or entity

California Air Resources Board

9

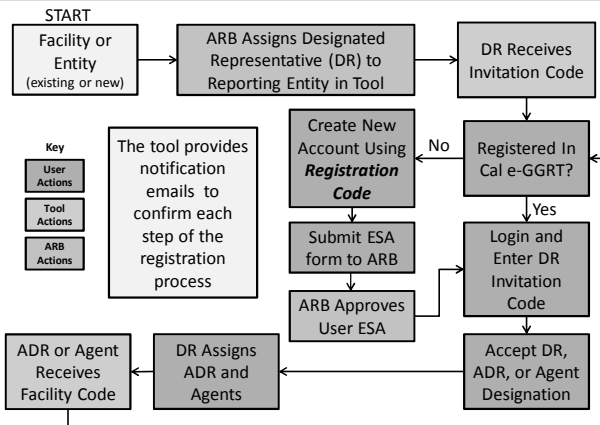
Registering in Cal e-GGRT

- Create Individual User Account
 - Applies to ALL users that do not have an account
 - Registration code needed
 - Initially, not associated with facility
- ARB Creates Facility Account
 - Cal e-GGRT sends Designated Representative (DR) Invitation Code to primary facility contact
 - Invitation Codes generated by the tool are used to associate users with facilities
- DR may add an Alternate DR and Agents to facility account

California Air Resources Board

10

User Registration and DR Acceptance



California Air Resources Board

11

User Registration: Login Page

<http://www.arb.ca.gov/cc/reporting/ghg-rep/tool/ghg-tool.htm>

Context sensitive help on every page

If you have an account then log in here

Otherwise, click the green NEW USER REGISTRATION button

Cal e-GGRT Login Page

Welcome to ARB's electronic Greenhouse Gas Reporting Tool

Cal e-GGRT supports facility and supplier reporting for the Mandatory Reporting of Greenhouse Gases Regulation. The regulation requires electronic reporting of greenhouse gas (GHG) emissions from large sources and suppliers in California.

Forgot your User Name or Password?

NEW USER REGISTRATION

NOTE: Your Cal e-GGRT user account is NOT the same as your EPA CO2 user account.

ARB Home | Contact Us

Cal e-GGRT RV2011 R4.8 | U41-1

12

User Registration: Account Setup

- Accept Cal e-GGRT Terms and Conditions
- Create User Profile

California Environmental Protection Agency
Air Resources Board

Cal e-GGRT
California Electronic Greenhouse Gas Reporting Tool

USER REGISTRATION

Cal e-GGRT Help | About Cal e-GGRT Home

Progress: User Profile | Challenge Questions | Signature Agreement | Print Summary

YOUR USER PROFILE
By completing and saving this form you will establish your Cal e-GGRT user profile.

NOTE: You will not be able to return to this screen, so please double-check the information before you save.

Registration Code*

Title* Select

First Name*

Middle Initial

Last Name*

Suffix Select

ADDRESS INFORMATION

California Air Resources Board

13

User Registration: Electronic Signature and Use Agreement (ESA)

- **Original ESA must be physically mailed to ARB**
 - Must sign and date form
- To speed processing
 - Email scanned copy to: ghgreport@arb.ca.gov, or
 - Fax copy to: 916-327-8524, Attn: Dave Edwards
- ARB approves ESAs for all user accounts
- User cannot accept Designated Representative or other invitations until ESA approved
- Users do not have access to facility account until ESA approved

California Air Resources Board

14

User Registration: Accept Designated Representative Invitation

California Environmental Protection Agency
Air Resources Board

Cal e-GGRT
California Electronic Greenhouse Gas Reporting Tool

HOME | FACILITY MANAGEMENT | DATA REPORTING

Cal e-GGRT Help | About Cal e-GGRT Home

YOUR FACILITIES:

| Facility or Supplier | Your Role |
|---|-----------|
| ARB Test Facility - TEST ONLY - Production Site | DR |

ACCEPT AN INVITATION:

Responding to a Facility Invitation?

Paste the Invitation Code into the field below, then click 'GO'

GO

Cal e-GGRT Announcements

Subject: Cal e-GGRT: Accept appointment as Designated Representative for ARB Test Facility - TEST ONLY - Production Site (Ref# 347)

A Notice from California ARB's Electronic Greenhouse Gas Reporting Tool (Cal e-GGRT)

You have been appointed to be Designated Representative for ARB Test Facility - TEST ONLY - Production Site. You were appointed by Master User on Friday, February 17, 2012.

To accept this assignment, follow these steps:

1) Login to Cal e-GGRT at <https://ssl.arb.ca.gov/cal-eGGRT/login.do>.
If you are not a Cal e-GGRT user you will need to create a user account. Click the NEW USER REGISTRATION button on the login page to begin.

2) On the homepage, find the "Accept an Invitation" panel, then copy and paste the following Invitation Code in the field provided.

Invitation Code: 5DFD13E1E1F04D8586A8834AF5A0573A

California Air Resources Board

15

User Registration: Adding ADR and Agents

- Facility Management tab
- Use CHANGE or Add Agent buttons

California Environmental Protection Agency
Air Resources Board

Cal e-GGRT
California Electronic Greenhouse Gas Reporting Tool

HOME | FACILITY MANAGEMENT | DATA REPORTING

Cal e-GGRT Help | About Facility Management

ARB Test Facility - TEST ONLY - Production Site
Facility Summary

Cal e-GGRT FACILITY SUMMARY
From this summary page, depending upon your role, you can make changes to the "Facility Profile" information, the facility's representatives Designated Representative (DR) and Alternate Designated Representative (ADR), and to your Agents if you are a DR or ADR.

| Designated Representative | Alternate Designated Representative |
|---------------------------|-------------------------------------|
| Patrick Gaffney | Karen Lutter |

Facility Profile

Physical Address

ARB Test Facility - TEST ONLY - Production Site
ARB Street
Sacramento CA 95814

Facility Representatives

| Designated Representative | Alternate Designated Representative |
|---------------------------|-------------------------------------|
| Patrick Gaffney | Karen Lutter |

Agents (for this facility)

none appointed

Initiate changes here for DR, ADR, & Agents

California Air Resources Board

16

User Registration: ADRs and Agents

ARB Test Facility - TEST ONLY - Production Site
Facility Summary • Change DR

CHANGE THE DESIGNATED REPRESENTATIVE
Choose the way in which you would like to change the existing Designated Representative (DR):

- Promote the Alternate Designated Representative (ADR) to be the current ADR to be the new DR. (This is the preferred approach for changing a DR)
- Create a new DR - Create a new DR by entering his or her name, phone and email address.

ARB Test Facility - TEST ONLY - Production Site
Facility Summary • Change ADR

CHANGE THE ALTERNATE DESIGNATED REPRESENTATIVE
Choose the way in which you would like to change the existing Alternate Designated Representative (ADR):

- Remove the ADR - Remove the ADR without a replacement.
- Create a new ADR - Create a new ADR by entering their name, phone and email address. Only one ADR is allowed per facility.

ARB Test Facility - TEST ONLY - Production Site
Facility Summary • Add an Agent

ADD AN AGENT FOR THIS FACILITY

☐ **Create a new Agent.** Create a new Agent by entering their name, phone and email address. As a DR or ADR you may have one or more Agents at each facility or supplier. * denotes a required field

COMPLETE THE AGENT INVITATION
Enter the Agent's information in the form below and click the CONTINUE button. Cal e-GGRT will send the Agent an email invitation with instructions on how to login and accept the new role.

Once this person becomes an Agent, they will have access to all Cal e-GGRT data on this facility or supplier, which may include Confidential Business Information.

NEW AGENT

| | |
|------------------|--|
| First Name * | |
| Last Name * | |
| Phone * | |
| Email * | |
| Re-enter Email * | |

California Air Resources Board 17

Overview of Cal e-GGRT Operation

- Facility profile information
- Adding subparts for reporting
- Entering emissions data
- Validation messages

California Air Resources Board

18

Facility Profile Information

- Accessed via **FACILITY MANAGEMENT** tab
- Completed by DR during initial account acceptance

Facility Summary

Cal e-GGRT FACILITY SUMMARY
From this summary page, depending upon your role, you can make changes to the "Facility Profile" information, the facility's representatives Designated Representative (DR) and Alternate Designated Representative (ADR), and to your Agents if you are a DR or ADR.

Pending: The Certificate of Representation has a pending change preventing further changes to the facility or supplier's representatives or profile. The new Designated Representative Mr. Patrick Gaffney must click the "Sign Certificate of Representation" link that appears on their Cal e-GGRT home page.

| | | | | | | |
|--------------------------------------|---|---------------------------|-----------------|-------------------------------------|------|---|
| Facility Representatives | <table> <tr> <td>Designated Representative</td> <td>Patrick Gaffney</td> </tr> <tr> <td>Alternate Designated Representative</td> <td>none</td> </tr> </table> | Designated Representative | Patrick Gaffney | Alternate Designated Representative | none | <input type="button" value="Certificate of Representation"/> <input type="button" value="Agent (for this facility) for"/> <input type="button" value="C"/> <input type="button" value="H"/> <input type="button" value="DR"/> |
| Designated Representative | Patrick Gaffney | | | | | |
| Alternate Designated Representative | none | | | | | |
| Facility Profile | <input type="button" value="Add Agent"/> <input checked="" type="button" value="Remove selected"/> | | | | | |
| Physical Address | Patrick Training Facility #3 10011 Street Physical Address Sacramento CA 95814 | | | | | |
| Mailing Address | Patrick Training Facility #3 10011 Street Mailing Address Sacramento CA 95814 | | | | | |
| Billing Address | Patrick Training Facility #3 | | | | | |
| Responsible Party for Payment | | | | | | |
| Responsible Party Email | | | | | | |
| Responsible Party Phone | | | | | | |
| Latitude | 38.5636 | | | | | |
| Longitude | -121.496244 | | | | | |
| County | SACRAMENTO | | | | | |
| Air Basin | SACRAMENTO VALLEY | | | | | |
| District | SACRAMENTO METROPOLITAN AQMD | | | | | |
| Owners and Operators | Patrick | | | | | |

California Air Resources Board

Data Reporting

- Use **DATA REPORTING** tab to report emissions and other data

California Environmental Protection Agency
Air Resources Board

HOME FACILITY MANAGEMENT **DATA REPORTING**

Cal e-GGRT Help

e-GGRT Greenhouse Gas Data Reporting

Select Facility

ANNUAL GHG DATA REPORTING
You must select a facility to begin using any Data Reporting features, which include: Specifying which subparts the facility will be reporting, entering or updating corporate parent information (subpart A), entering GHG data and viewing validation reports, and lastly, preparing and submitting the Annual Report to ARB.

REPORTING FACILITIES

| ARB ID | Facility or Supplier | Annual Report Status | Facility Overview |
|--------|--|----------------------|---|
| 999999 | ARB Test Facility - TEST ONLY - Production Site (Sacramento, CA) | Not generated | <input type="button" value="OVERVIEW"/> |

FACILITIES NOT REPORTING IN 2011:

| ARB ID | Facility or Supplier | Annual Report Status | Facility Overview |
|----------------------|----------------------|----------------------|-------------------|
| No facilities found. | | | |

OPEN Facility Overview to begin entering data

California Air Resources Board

20

Subpart A – General Information

- All reporters complete Subpart A
- Some items in Subpart A not directly applicable to Abbreviated Reporters
- Complete Subpart A to clear all Validation Messages
- Cannot generate final report with pending validation messages

California Air Resources Board

21

Subpart A – Data Entry

- Required fields must be completed
- Validation messages triggered if incomplete

Patrick Training Facility #3
Sections 95100-95108 (Subpart A): Facility Reporting Information (2012)
Select Facility • Facility or Supplier Overview • Subpart A

SUBPART A – GENERAL INFORMATION
Each facility or supplier, and for each reporting year is required to supply some basic facility level information, including the entering and reporting of relevant NAICS codes and the entering and reporting of all highest-level United States parent companies.

[Subpart A: View Validation](#)

| NAICS Code | Description | Relevance | Delete |
|------------|-----------------------------|-----------|--------|
| 221122 | Electric Power Distribution | Primary | X |

ADD a NAICS Code

| Parent Company | Address | % of Ownership | Delete |
|----------------------------|---------|----------------|--------|
| No parent companies found. | | | |

ADD a Parent Company

GHG report start date: 01/01/2012

GHG report end date: 12/31/2012

Explanation of any calculation methodology changes during the reporting year:

Will you be submitting a Full or Abbreviated GHG Report?
☒ Full GHG Report
☐ Abbreviated GHG Report

Does this company or entity qualify for small business status? ☐ Yes ☒ No

California Air Resources Board

Subpart A – Validation Messages

- All validation must be cleared before report generation allowed
- All reporters provide electricity and natural gas purchased

FACILITY-LEVEL VALIDATION MESSAGES

| Validation Type ¹ | ID ² | Message ³ |
|------------------------------|-----------------|--|
| Data Completeness | A624 | You have not entered any natural gas purchases. At least one row must be entered into the Natural Gas Purchases section. If your facility did not purchase any natural gas, then select "Facility does not consume NG" as the natural gas provider name. |

CORPORATE PARENT VALIDATION MESSAGES

| Validation Type ¹ | ID ² | Corporate Parent Name | Message ³ |
|------------------------------|-----------------|-----------------------|--|
| Data Completeness | A510 | | Please identify the highest-level United States parent company as of December 31 of the current reporting year. This data is required. |

NAICS CODE VALIDATION MESSAGES

| Validation Type ¹ | ID ² | NAICS Code | Message ³ |
|--|-----------------|------------|----------------------|
| No NAICS code validation messages found. | | | |

23

Reporting: Adding Subparts

- Add or remove subparts as applicable to reporting entity
- OPEN subpart to complete data entry for each subpart

ARB Test Facility - TEST ONLY - Production Site (2011)
Cal e-GGRT Greenhouse Gas Data Reporting
Select Facility • Facility or Supplier Overview

FACILITY OR SUPPLIER OVERVIEW
This page allows you to add the source and/or supplier categories for which your facility or supplier will be reporting, then to access those data reporting screens using the OPEN buttons.

After data reporting is complete, you can initiate the annual report review and submission process from this page by using the SUBMIT button (or RESUBMIT for subsequent submissions if needed).

| 2011 Reporting Source or Supplier Category | Validation Messages? | Subpart Reporting |
|--|----------------------|-------------------|
| Sections 95100-95108 (Subpart A)—General Information | View Messages | OPEN |
| Sections 95115, 95112 (Subpart C)—Stationary Fuel Combustion | View Messages | OPEN |
| Section 95113 (Subpart V)—Petroleum Refineries | View Messages | OPEN |

ADD or REMOVE Subparts

SUBPART ATTACHMENTS

| Uploaded File Name | Subpart | Uploaded By | Uploaded Date |
|------------------------|---------|-------------|---------------|
| No subpart attachments | | | |

CO₂ equivalent emissions (excluding biogenic from subparts C, HH (metric tons)) 0

Biogenic CO₂ emissions from subparts C, HH (metric tons) 0

CO₂ equivalent quantity from supplier categories (metric tons) 0

VIEW Q&A DETAILS

California Air Resources Board

24

Reporting: Adding Subparts

- Select applicable subparts
- Most Abbreviated Reporters will only use Subparts A and C
 - “A” for general info
 - “C” for stationary combustion

The screenshot shows the 'EPA SUBPARTS D - AA' section on the left and the 'GENERAL STATIONARY FUEL COMBUSTION' section on the right. In the 'GENERAL STATIONARY FUEL COMBUSTION' section, the checkbox for '95115, 95112 (Subpart C)—Stationary Fuel Combustion' is checked. Other subparts listed include 95112 (Subpart D)—Acid Rain Program EGU, 95110 (Subpart H)—Cement Production, 95116 (Subpart N)—Glass Production, 95114 (Subpart P)—Hydrogen Production, 95120 (Subpart Q)—Iron and Steel Production, 95117 (Subpart R)—Lime Manufacturing, 95118 (Subpart V)—Nitric Acid Production, 95100-95167 (Subpart W)—Oil and Natural Gas Systems, 95113 (Subpart Y)—Petroleum Refineries, and 95119 (Subpart AA)—Pulp and Paper Manufacturing.

California Air Resources Board

27



Subpart C Reporting Stationary Fuel Combustion

California Air Resources Board

26

Adding a Subpart C Configuration

Two Step Process

1. Configuration Setup
 - Created once for each configuration
 - Varies by configuration type
2. Fuel Use and Emissions per Configuration
 - Reported for each fuel type combusted in a given configuration
 - Data required varies by tier and fuel type

California Air Resources Board

Reporting: Subpart C Stationary Combustion

- Add configurations to report units
- Then OPEN configurations and OPEN subordinate levels to report emissions and fuel data

The screenshot shows the '95115, 95112 (Subpart C) - Stationary Fuel Combustion' configuration setup screen. The 'Configuration Summary' table shows a single configuration with status 'Incomplete'. The 'Configuration Information' section shows details for a 'Single Unit using Tiers 1, 2, or 3'. The 'Configuration-Level Emissions Information' section shows a table for 'Fuel-Specific Emissions Information' with columns for Fuel, Period, Emissions, and Status.

California Air Resources Board

Subpart C Configurations

- Subpart C offers 6 different reporting options, known as **Configurations** in Cal e-GGRT
- Reporting options provided in 40 CFR 98.36(b)-(c)
- Abbreviated reporters will typically use those in ***blue**
 - *Single Unit Using Tiers 1, 2, or 3 [98.36(b)]
 - *Aggregation of Units [98.36(c)(1)]
 - *Common Pipe [98.36(c)(2)]
 - Single Unit Using Tier 4 (CEMS) [98.36(b)]
 - Common Stack or Duct (CEMS) [98.36(c)(3)]
 - Alternative Part 75 Reporters [98.36(d)(2)]

California Air Resources Board

29

Adding a Configuration

- Select appropriate configuration
- Complete descriptive information that follows

ARB Test Facility - TEST ONLY - Production Site (2011)
95115, 95112 (Subpart C) - Stationary Fuel Combustion
Subpart C Overview - New Configuration

SUBPART C REPORTING CONFIGURATIONS
For stationary combustion sources required to report under subpart C, Cal e-GGRT requires a facility to identify which reporting option each unit or group of units will be using to report emissions. The different subpart C reporting options are referred to as configurations in Cal e-GGRT. The individual configurations are designed to match the reporting options made available by the rule in 40 CFR 98.36.

Note: You cannot change the Reporting Configuration Type for a unit or group after this step without starting over. This would entail losing any emissions data for the current reporting year, if entered.

Once a configuration is added, Cal e-GGRT will allow the user to enter the required reporting elements for the configuration type selected. A facility may have multiple configuration types and/or multiple configurations of any given type.

For additional information about adding and editing a configuration and the different reporting configurations available, please use the Cal e-GGRT Help link(s) provided.

SELECT A REPORTING CONFIGURATION

| Select | Reporting Configuration Type | Calculation Methodology | Rule Reference |
|-----------------------|------------------------------------|-------------------------|----------------|
| <input type="radio"/> | Single Unit Using Tiers 1, 2, or 3 | Tier 1, 2, or 3 | 98.36(b) |
| <input type="radio"/> | Single Unit Using Tier 4 (CEMS) | Tier 4 | 98.36(b) |
| <input type="radio"/> | Aggregation of Units | Tier 1, 2, or 3 | 98.36(c)(1) |
| <input type="radio"/> | Common Pipe | Tier 1, 2, or 3 | 98.36(c)(3) |
| <input type="radio"/> | Common Stack or Duct (CEMS) | Tier 4 | 98.36(c)(2) |
| <input type="radio"/> | Alternative Part 75 Reporters | 98.33(a)(5) | 98.36(d)(2) |

CANCEL NEXT

California Air Resources Board

30

Configuration Information for Single Unit

- Select appropriate configuration type
- Provide setup information shown
- Electricity generation units require additional info when "Yes" selected

CONFIGURATION INFORMATION
For stationary combustion sources required to report under subpart C, Cal e-GGRT requires a facility to identify which reporting option each unit or group of units will be using to report emissions. The different subpart C reporting options are referred to as configurations in Cal e-GGRT. The individual configurations are designed to match the reporting options made available by the rule in 40 CFR 98.36.

Once a configuration is added, Cal e-GGRT will allow the user to enter the required reporting elements for the configuration type selected. A facility may have multiple configuration types and multiple configurations of any given type.

For additional information about adding and editing a configuration and the different reporting configurations available, please use the Cal e-GGRT Help link(s) provided.

* denotes a required field

Configuration Type: Single Unit Using Tiers 1, 2, or 3

Unit NameID* PG Test Unit (40 characters maximum)

Description of the Unit or Unit Aggregation

Unit Type* IC (incinerator, commercial and industrial)

Maximum Rated Heat* 12

Input Capacity

Unit of Measure* mmBtu/hr

ELECTRICITY GENERATING UNITS
Does this Configuration have the capacity to generate electricity?
☐ Yes ☒ No

CANCEL SAVE

California Air Resources Board

Cal-eGGRT RY2011 R 100 | SPC-01

Entering Fuel and Emissions Data

- Open Unit Configuration
 - Click on "ADD a Fuel"
 - Select a fuel
 - Select a Tier
 - Most abbreviated reporters will use Tier 1
 - Add additional fuels as applicable
- Open Fuel Information
 - Select calculation method
 - Enter fuel use data
 - Enter HHV and other data as applicable (Tiers 2 or 3)
 - Tool calculates emissions based on fuel use entered

California Air Resources Board

Add a Fuel

- Click on button to add fuels for configuration
- Also, complete CONFIGURATION-LEVEL data

California Air Resources Board

¹ A status of "Incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness

Entering Fuel Information

- Open fuel ①
- Enter required data ②

California Air Resources Board

Check Results

- Emissions calculated by tool using fuel and EFs
- Confirm entered or calculated results
- Can be overridden, but generally not needed

California Air Resources Board

Biogenic Emissions

- ARB requires reporting of biogenic emission totals (in addition to fuel-based biofuel emissions)

California Air Resources Board

- Manually entered
- Include all biogenic emissions for the configuration in total
- Required for correct accounting of biogenic emissions

Uploading Supporting Data

- If using Tier 2 or Tier 3 methods:
 - Generally not for abbreviated reporters
 - ARB requires reporting of additional information
 - Complete and upload required spreadsheets available in tool

CONFIGURATION-FUEL-PERIOD

| | |
|-----------------------|---|
| Unit or Group Name/ID | PG Single Unit |
| Configuration Type | Single Unit Using Tiers 1, 2, or 3 |
| Fuel (Fuel Type) | Natural Gas (Weighted U.S. Average) (Natural Gas) |
| Reporting Period | 01/01/2011 - 12/31/2011 |

FUEL INPUT DATA FOR EQUATIONS C-2A AND C-8A

Mass or Volume of Fuel Combusted Per Year [Fuel] _____ (scf)

Annual Average High Heat Value (HHV) _____ (mmBtu/scf)

Calculated Result from equation C-2b _____

Use Equation C-2b spreadsheet to calculate the Annual Average

Please click the Equation C-2b (HHV) Calculation Spreadsheet link to download the Equation attach the completed Equation C-2b calculation spreadsheet below.

[Browse...](#) [UPLOAD](#)

Uploaded File Name _____ Attached By _____

No files found.

California Air Resources Board

37

Data Validation and Report Submittal

California Air Resources Board

38

Data Validation

- Tool provides data validation
- Most messages must be cleared before report submittal
- Clicking on message brings you to where the issue occurred

ARB Test Facility - TEST ONLY - Production Site (2011)
95115, 95112 (Subpart C) - Stationary Fuel Combustion
Subpart Overview - Validation Report

SUBPART C VALIDATION REPORT

This report contains a complete set of validation messages for all data required by this Subpart. For additional information about Validation Reports, please use the Cal e-GGRT Help links provided.

[Print-friendly version](#)

FACILITY-LEVEL VALIDATION MESSAGES

| Validation Type ¹ | ID ² | Message ³ |
|--|-----------------|----------------------|
| No facility level validation messages. | | |

CONFIGURATION-LEVEL VALIDATION MESSAGES

| Validation Type ¹ | ID ² | Unit Name | Message ³ |
|------------------------------|-----------------|----------------|---|
| Data Completeness | C125 | PG Single Unit | Annual carbon dioxide emissions from combustion of all biomass fuels combined (if any of the units burn fossil AND biomass). This data element is required. |
| Data Completeness | C126 | PG Single Unit | Annual carbon dioxide emissions from sorbent. This data element is required. |

FUEL-LEVEL VALIDATION MESSAGES

| Validation Type ¹ | ID ² | Fuel Name | Message ³ |
|------------------------------|-----------------|----------------|---|
| Data Completeness | C146 | PG Single Unit | Natural Gas (Weighted U.S. Average) Annual carbon dioxide emissions from combustion of the specified fuel. This data element is required. |

[Subpart Overview](#)

¹ Validation Types: Cal e-GGRT generates a variety of validation types, defined below:

- Data Completeness: data required for reporting is missing or incomplete.
- Data Quality: data is outside of the range of expected values. The value you have provided is outside the ARB estimated range for this data element. Please double check this value and revise, if necessary. If you believe it to be correct, please submit the value as is.
- Screen Error: a data value or combination of data values prevents Cal e-GGRT from continuing to the next page. Typically, this will not appear on the validation report, but instead will be displayed on the data entry page at the time the error was created.

California Air Resources Board

39

Emission Roll-ups

- Cal e-GGRT calculates emissions totals for each subpart and aggregates subpart totals into facility or supplier totals
- Annual emissions calculated from each applicable subpart, for each of the following GHGs (in metric tons of each gas)
 - CO₂ (excluding biogenic CO₂)
 - Biogenic CO₂
 - CH₄ (and CH₄ converted to CO₂e)
 - N₂O (and N₂O converted to CO₂e)
- The subpart totals are rolled-up into the following facility totals:
 - Total CO₂ equivalent (CO₂e) for all sources and all GHGs (includes N₂O and CH₄) except of biogenic CO₂
 - Biogenic CO₂ from all sources
 - Emissions for fuel supplier categories
 - Emissions for Electric Power Entities

11,621

CO₂ equivalent emissions (excluding biogenic) from subparts C - AA (metric tons)

0

Exempt Biogenic CO₂ emissions from subparts C - AA (metric tons)

0

CO₂ equivalent quantity from supplier categories, including biogenic (metric tons)

0

CO₂ equivalent emissions from electric power entities (metric tons)

[VIEW GHG DETAILS](#)

The totals shown above do not include the de minimis emissions entered in subpart A.

California Air Resources Board

Emissions Checks Before Submitting Reports

- Reality-check data
- Review overall magnitude of emissions
 - Do totals look okay?
- Make sure fuel units (mmBtu, Therms, scf, etc.) are correct for method selected
- Generate full report and check inputs and other data

California Air Resources Board

41

Generating Report

- After ALL critical validation messages are cleared, GENERATE/SUBMIT button activates
- Generate report and review inputs and data

SUBPART ATTACHMENTS

| Uploaded File Name | Subpart | Uploaded By | Uploaded Date |
|--|---------|----------------|-------------------|
| Copy of De Minimis Emissions.xls | A | Katrina Luther | October 2, 2012 |
| Equation C-2b (CC) Calculation Spreadsheet.xls | C | Katrina Luther | December 26, 2012 |

SUBMIT ANNUAL REPORT

If all subparts are completed and Validation Messages addressed to your satisfaction, you are ready to prepare and submit an Annual Report.

| Report | Uploaded File Name | Status | Submitted Date | Certification Date | |
|-----------------------|--------------------|------------------|----------------|--------------------|--|
| 2011 Annual Report v1 | | Ready for review | | | <input type="button" value="GENERATE / SUBMIT"/> |

Submit/Certify Report

- After all checks complete **SUBMIT/CERTIFY** the report
- This **LOCKS** the report and it can no longer be edited

GENERATE REPORT

Generating the report may take from 1 to 10 minutes depending upon the volume of data.

Once your facility has generated a report, it is still possible to return to the data reporting screens to make changes. Those changes, however, will not be reflected in your Annual Report until you generate it again.

The Annual Report has already been prepared. Clicking this button will regenerate the report. This action will reflect any changes that have been made to the reported data.

REVIEW REPORT

Prior to the submission and certification of your report to ARB, you may review it by using the VIEW REPORT, VIEW EXCEL or VIEW XML buttons.

SUBMIT and CERTIFY REPORT

If you have reviewed and are satisfied with your Annual Report you may proceed to submit and certify. The certification process includes applying your electronic signature (entering your password and answering a challenge question).

After clicking the SUBMIT/CERTIFY button, and completing the certification process, your report is locked and submitted to ARB via Cal e-GGRT. You will not be able to generate a new report until the certified report status has been set to Revisions Requested by a verifier or ARB staff.

California Air Resources Board

Report Completion

- Once the report is submitted, Cal e-GGRT will send a confirmation email to the DR and others on the account
- Report submittal locks the report so data cannot be edited without ARB intervention
- Generated reports remain accessible in system
- Recommend printing and archiving generated report and any associated data

California Air Resources Board

44

Additional Information

California Air Resources Board

45

Helpful Web Sites

- Email reporting questions to: ghgreport@arb.ca.gov
- Reporting Guidance: Applicability, Metering
<http://www.arb.ca.gov/cc/reporting/ghg-rep/guidance/guidance.htm>
- Cal e-GGRT Tool Training: Registration, Subparts
<http://www.arb.ca.gov/cc/reporting/ghg-rep/tool/ghg-tool.htm>
- Cal e-GGRT Main Help Page
<http://www.ccdsupport.com/confluence/display/calhelp/Home>

California Air Resources Board

46

Some Emissions Terminology

- Total CO₂ emissions
 - Measured or calculated value of CO₂ that includes both biogenic and non-biogenic emissions
- Fossil fuel CO₂ emissions
 - CO₂ emissions from fossil fuels
 - Fossil fuel portion of CO₂ from fuels with a fossil and biomass component (i.e. MSW and tires)
- Biogenic CO₂ emissions
 - CO₂ emissions from biomass fuels (wood, biogas, etc.)
 - Biogenic portion of CO₂ from fuels with a fossil and biomass component (e.g., municipal solid waste and tires)
- Non-Biogenic CO₂ emissions
 - CO₂ emissions from fossil fuels
 - Any N₂O or CH₄ combustion emissions
 - Sorbent CO₂
 - Process CO₂
 - Fossil fuel fraction of CO₂ from fuels with a fossil and biomass component (e.g., municipal solid waste and tires)

California Air Resources Board

47

Key Reporting Dates

| Date | Activity |
|-------------|--|
| February 1 | Regulatory deadline: Due date for electric power entities to register specified facilities outside California |
| February 13 | Public release of Cal e-GGRT |
| April 10 | Regulatory deadline: Reporting deadline for facilities and suppliers of fuels and carbon dioxide, except when subject to abbreviated reporting |
| June 3 | Regulatory deadline: Reporting deadline for electric power entities and those subject to abbreviated reporting |
| July 15 | Regulatory deadline: Deadline for corrections to RPS Adjustment data required for electric power entity data reports |
| September 3 | Regulatory deadline: Final verification statements due (emissions data and product data) |

California Air Resources Board 4/17/2013

48

GHG Reporting Contacts

| Subject Matter | Contact |
|---|---|
| GHG Mandatory Reporting (General) | <u>Dave Edwards</u> , Manager 916.323.4887 |
| Reporting Requirements, Stationary Combustion, Other Sectors (cement, glass, pulp and paper, etc.) | <u>Patrick Gaffney</u> 916.322.7303 |
| Reporting Tool Registration and General Questions | <u>Karen Lutter</u> 916.322.8620 |
| Electricity Generation and Cogeneration Facilities | <u>Anny Huang</u> 916.323.8475 |
| Electricity Retail Providers and Electricity Marketers | <u>Wade McCartney</u> 916.327.0822 |
| Fuel and CO ₂ Suppliers - Transportation Fuels, Natural Gas, LPG, CO ₂ | <u>Syd Partridge</u> 916.445.4292 |
| Petroleum Refineries, Hydrogen Plants, Oil & Gas Production | <u>Byard Mosher</u> 916.323.1185 |
| Product Data – Refineries, and Oil & Gas | <u>Joelle Howe</u> 916.322.6349 |
| Greenhouse Gas Report Verification | <u>Renee Lawver</u> , Manager 916.322.7062 |
| Chief – Greenhouse Gas Emission Inventory Branch | <u>Richard Bode</u> , Chief 916.323-8413 |

49

End

California Air Resources Board

50